HARNESS, DICKEY & PIERCE, P.L.C.

Attorneys and Counselors 7700 Bonhomme, Suite 400 Clayton, MO 63105 Phone: 314-726-7500

Fax: 314-726-7501
Troy, MI • Washington, D.C.

RECEIVED CENTRAL FAX CENTER

OCT 3 0 2003

Unofficial

DATE:	October 30, 2003		No. of Pages (Including This Page): 6	
FOR: COMPANY: FAX No.:	Tran Nguyen U.S.P.T.O. 703-872-9306	PHONE:		ORIGINAL WILL FOLLOW BY: REGULAR MAIL OVERNIGHT MAIL COURIER WILL NOT FOLLOW
FROM:	Michael J. Thomas			
COMMENTS:	Please let us know by	phone or fax if you do	not receive any of these pa	ges.
Re: Appl Attor	ication No.: 10/035,365 rney Docket No.: 5260-00001	6/US		

* * * NOTICE * * * *

The information contained in this telefax transmission is intended only for the individual to whom or entity to which it is addressed. It may also contain privileged, confidential, attorney work product or trade secret information which is protected by law. If the reader of this message is not the intended recipient, or an employee or agent responsible f r delivering the message to the addressee, the reader is hereby notified that any dissemination, distribution, or copying of this c mmunication is strictly prohibited. If you have received this communication in error, please immediately notify us by telephone and return the original message to us at the address above via the U.S. Postal Service. We will reimburse you for any reasonable expense (including postage) for the return of the original message.

FOR DISCUSSION ONLY PLEASE DO NOT ENTER

Application No. 10/035,365 Examiner Tran N. Nguyen

DRAFT AMENDMENT AFTER FINAL

The following listing of claims would replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

- 1-5. (canceled).
- 6. (currently amended) A <u>doubly salient</u> stater for use in a permanent magnet machine, the <u>machine</u> stater comprising:

a stator including a frame having an outer peripheral edge and an inner peripheral edge extending about a central axis; a plurality of stator teeth extending from the frame's inner peripheral edge toward the central axis; and a plurality of permanent magnets each located entirely within one of the stator teeth; wherein only every other one of the stator teeth have having one of the permanent magnets located therein; and wherein the permanent magnets in said every other one of the stator teeth have having inwardly facing north poles;

a rotor having no magnets located therein; and

a unipolar drive for driving rotation of the rotor relative to the stator with

unipolar current.

7. (currently amended) The <u>machine stater</u> of claim 6 wherein the permanent magnets and the stator teeth each have a width extending in a direction of rotation of the a rotor when the rotor is mounted for rotation about the

central axis, and wherein the widths of the permanent magnets are greater than the widths of the stator teeth.

- 8. (currently amended) The A permanent magnet machine comprising the stater of claim 6 wherein and a reter mounted for rotation about the central axis, the rotor includes including a plurality of rotor teeth extending outwardly relative to the central axis.
- 9. (currently amended) The permanent magnet machine of claim 8 wherein the stator includes twelve stator teeth, and wherein the rotor includes eight rotor teeth.
- 10. (currently amended) A <u>doubly salient</u> stater for use in a permanent magnet machine, the <u>machine</u> stater comprising:

a stator including a frame having an outer peripheral edge and an inner peripheral edge extending about a central axis; a plurality of permanent magnets having inwardly facing north poles; a first plurality of stator teeth extending from the frame's inner peripheral edge toward the central axis, each of the first plurality of stator teeth having one of the permanent magnets located at least partly therein; and a second plurality of stator teeth extending from the frame's inner peripheral edge toward the central axis, the second plurality of stator teeth each having no permanent magnets located therein;

a rotor having no magnets located therein; and

a unipolar drive for driving rotation of the rotor relative to the stator with unipolar current.

- 11. (currently amended) The <u>machine</u> stator of claim 10 wherein the first plurality of stator teeth each have one of the permanent magnets located entirely therein.
- 12. (currently amended) The <u>machine stator</u> of claim 10 wherein the first plurality of stator teeth are each positioned directly between two of the second plurality of stator teeth.
 - 13. (canceled).
- 14. (currently amended) The <u>machine</u> etator of claim 10 wherein the first plurality is equal in number to the second plurality.
- 15. (currently amended) The <u>machine</u> stater of claim 10 wherein the permanent magnets and the first plurality of stator teeth each have a width, and wherein the widths of the permanent magnets are greater than the widths of the first plurality of stator teeth.
- 16. (currently amended) The <u>machine</u> stater of claim 10 wherein each of the first plurality of stater teeth have a first profile, and wherein each of the second plurality of stater teeth have a second profile different than the first profile.
- 17. (currently amended) The <u>machine stator</u> of claim 16 wherein the first and second profiles each include end regions facing the central axis, and wherein the second profile's end regions taper inwardly towards said inner peripheral edge to a greater extent than the first profile's end regions.
 - 18. (canceled)

19. (currently amended) A <u>doubly salient</u> stater for use in a permanent magnet machine, the <u>machine</u> stater comprising:

a stator including a frame having an outer peripheral edge and an inner peripheral edge extending about a central axis; a plurality of permanent magnets each having inwardly facing north poles; a first plurality of stator teeth extending from the stator frame's inner peripheral edge toward the central axis, each of the first plurality of stator teeth having one of the permanent magnets located entirely therein; and a second plurality of stator teeth extending from the frame's inner peripheral edge toward the central axis, the second plurality of stator teeth each having no permanent magnets located therein; wherein each of the first plurality of stator teeth are each positioned directly between two of the second plurality of stator teeth;

a rotor having no magnets located therein; and

a unipolar drive for driving rotation of the rotor relative to the stator with unipolar current.

- 20. (currently amended) The A-permanent magnet machine comprising the stater of claim 19 and a roter mounted for rotation about the contral axis, wherein the stater includes twelve stater teeth, and wherein the roter includes eight roter teeth.
- 21. (currently amended) The <u>machine stator</u> of claim 10 wherein the first plurality of stator teeth are each positioned directly adjacent to another one of the first plurality of stator teeth.

22. (currently amended) The machine stator of claim 21 wherein three of the first plurality of stator teeth are positioned directly adjacent one another.